



United States Department of the Interior

GEOLOGICAL SURVEY

Conservation Division
P. O. Box 26124
Albuquerque, New Mexico 87125

APR 04 1979

Walter W. Krug dba Wallen Production Company
P. O. Box 1960
Midland, Texas 79702

Dear Mr. Krug:

Your Application for Permit to Drill well No. 4 Bass in the SW 1/4 Sec. 21, T. 20 S., R. 34 E., Lea County, New Mexico, Lease Las Cruces 076315, to a depth of 3650 feet to test the Yates-Seven Rivers formation in the Oil Potash area is hereby approved, as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the District Engineer, Geological Survey, Hobbs, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

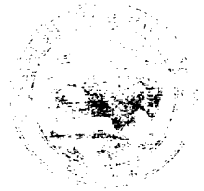
AREA OIL AND GAS SUPERVISOR, SRMA

Enclosure

cc: Conservation Manager, Denver
Area Mining Supervisor, Albuquerque (2)
NMOCD, Hobbs (2) (w/2 copies Notice)
Roswell Area Office (2)
Hobbs District Office

Office of the Secretary of the Interior

WASHINGTON, D.C. 20540



910 11 990

DEPARTMENT OF THE INTERIOR (000 0000)

WASH. FIELD OFFICE (000 0000)

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OIL CONSERVATION COMM.
HOBBS, N. M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Walter W. Krug DBA Wallen Production Company

3. ADDRESS OF OPERATOR

Box 1960, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1650' FEL & 660' FSL

At proposed prod. zone

same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

28 miles W NW from Eunice, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. line, if any)

1650'

16. NO. OF ACRES IN LEASE

60

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1420'

19. PROPOSED DEPTH

3650'

20. ROTARY OR CABLE TOOLS

cable tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 3669' approx.

22. APPROX. DATE WORK WILL START*

5-21-1979

23. PROPOSED CASING AND CEMENTING PROGRAM

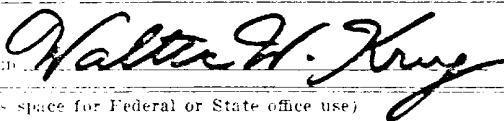
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15½"	13 3/8"	72#	225'	350 sxs class "c" circulate
12½"	10 3/4"	54#	676'	mudded in
10"	8 3/4"	32#	1194'	mudded in
8"	7"	23#	3385'	1000 sxs class "c" circulat
				2% gel & ¼" flocele/sx
6½"	4½"	10½#	3650'	60 sxs class "c" w ¼" flo-
				cele/sx

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED



TITLE

Engineer

DATE

2/20/1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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OIL CONSERVATION COMM.
ROBBS, N. M.

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OIL CONSERVATION COMM.
ROBBS, N. M.

WELL LOCATION AND ACREAGE DEDICATION AT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

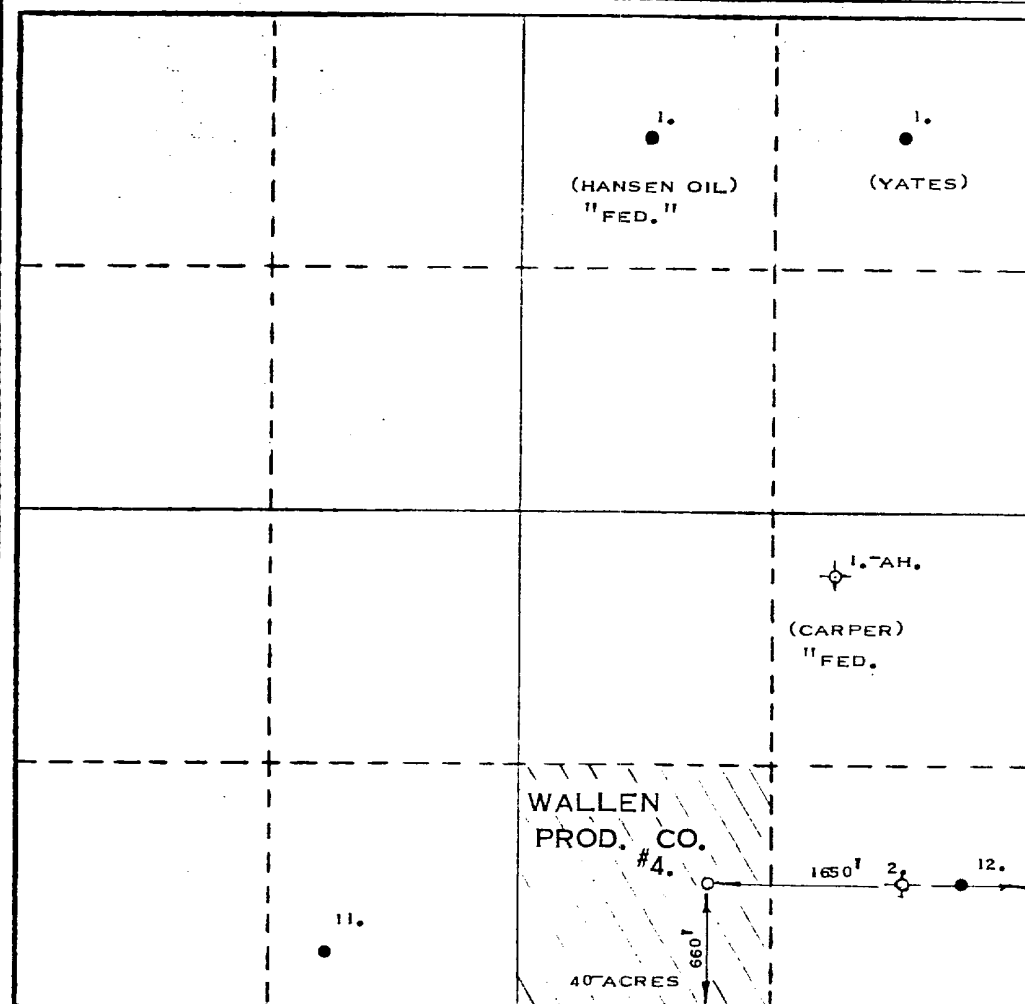
Operator WALLEN PRODUCTION COMPANY			Lease BASS		Well No. 4
Unit Letter "O"	Section 21	Township -20-S	Range -34-E	County LEA	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 660 feet from the SOUTH line and 1650 feet from the EAST line </div>					
Ground Level Elev. 3671	Producing Formation YATES & SEVEN RIVERS		Pool MIDDLE LYNCH - YATES SEVEN RIVERS		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



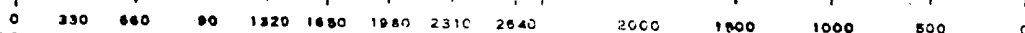
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Walter H. King
 Position Engineer
 Company Wallen Prod Co.
 Date 3/9/79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
MARCH 5, 1979
 Registered Professional Engineer and/or Land Surveyor
Walter H. King
 Certificate No. **1510**



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OIL CONSERVATION COMM.
HOUSTON, AL. AL.

AGREEMENT

Noranda Exploration, Inc have no objection to Walter W. Krug, DBA Wallen Production Co.'s casing program on a well located in 660 FSL and 1650 FEL of Section 21, Block 20, T 34 E, Lea County, New Mexico (said well to be 3600 feet plus or minus) using the USGS approved requirements and that Wallen Production Co. will furnish Noranda Exploration, Inc an electric log, gamma ray and neutron run at as low a speed as possible through the salt section, and that Wallen Production Co. will build its brine with KCl through the interval of the 10th ore zone and allow Noranda Exploration Inc's man to study the drill cuttings through that section, if so requested by Noranda.

This is as per the conversation and agreement with James Brewer, Geologist, Noranda Exploration, Inc.

Dated this 21 day of February 1979

NORANDA EXPLORATION, INC

BY _____

Walter W. Krug, dba Wallen Production Co., does hereby agree
by the terms of this consent as outlined above.

Walter W. Krug, dba
Wallen Production Co.

By Walter W. Krug

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OIL CONSERVATION COMM.
ALBUQUERQUE, N. M.

DEVELOPMENT PLAN FOR SURFACE USE

1650 FEL & 660 FSL

Sec 21, T 20S, R 34E

Lea Co, New Mexico

The following discussion answers the items 1 through 12, concerning the above subject well.

AERIAL MAP

Plat # 1 is a portion of a USGS topographic map, Lea County, New Mexico, showing existing roads. The location is approximately 26½ miles from Hobbs. The location is along the county road.

LOCATION OF EXISTING
WELLS

Plat # 2 shows all of the wells and dry holes within a one (1) mile radius of the proposed location.

PROPOSED WELL
LOCATION

Plat # 3 shows the rig location with North orientation marker.

a. Mat size is 140' x 180'.

b. Surfaced with 8" of compacted, watered and leveled caliche from BLM quarry.

c. Pit is 40' x 60' x 8' deep.

d. Cut and fill isn't necessary, here the location is nearly level and only requires caliche.

e. Entrance road is 930' long and comes off of the county maintained road.

f. SETTING AND ENVIRONMENT

1. Terrain is gently rolling sand (see Plat # 1).

2. Soil is a very sandy clay.

3. Vegetation is scrub oak, mesquite, gramma grass, spanish dagger, general desert weeds and sand burrs.

4. Surface use is for grazing.

5. Other the area is nearly flat semi-arid desert country and is probably considered a low environmental risk area. There should be very little (if any) environmental effect of drilling and producing in this vicinity.

g. Distances to

1. Ponds and streams - there are none

within 6 miles.
2. Water wells - none within one mile.

3. Residences and buildings - none within

6 miles.
4. Arroyos, Canyons, etc none within

1½ miles.

h. Well sign there will be a well sign at

the entrance of the road.

i. Open Pit will be guarded while drilling,

fenced while we are completing the well
and then closed in.

ROADS

Plat # 1 shows all roads within 3 miles or more.
Planned entrance is staked and road will be
680' long and 12' wide and will be caliched
with 8" mat note Plat # 3. There are no fences,
gates or cattle guard.

TANK BATTERY

Plat # 4 shows the existing Fee tank battery
in NW/4 of NW/4, Section 21, T 20 S, R 34 E.

LEASE PIPELINES

Plat # 4 shows all existing oil pipelines and salt
water line and disposal well. This plat also shows
the proposed oil flow line from this well if
oil is established.

WASTE DISPOSAL

Well cuttings will be disposed of in slush pit.
Barrel trash containers are on location and
contents will be burned or buried with a
minimum of 23" of dirt cover. Produced water
will be disposed of by injecting in our own
salt water disposal well.

WATER SUPPLY

Our water is hauled by commercial haulers.

ARCHAEOLOGICAL RESOURCES

None in the surrounding area.

RESTORATION OF SURFACE

Should the well be productive the pit will be
back filled as soon as practical.

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APR 15 1973

OIL CONSERVATION COMM.
RDSB. 12 11

OPERATORS REPRESENTATIVE

Walter W. Krug

P. O. Box 1960

Midland, Texas 79701

office phone ac 915- 683-2600

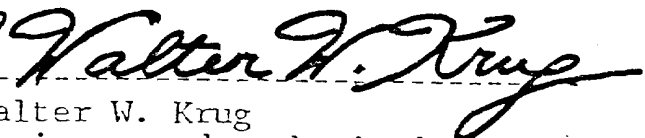
ac 915- 683-6526

home phone ac 915- 563-0048

12. CERTIFICATION

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions as they exist. The statements made in this plan are, to the best of my knowledge, true and correct and that the proposed work performed by Wallen Production Company its contractors and sub-contractors will conform to this plan.

March 13, 1979



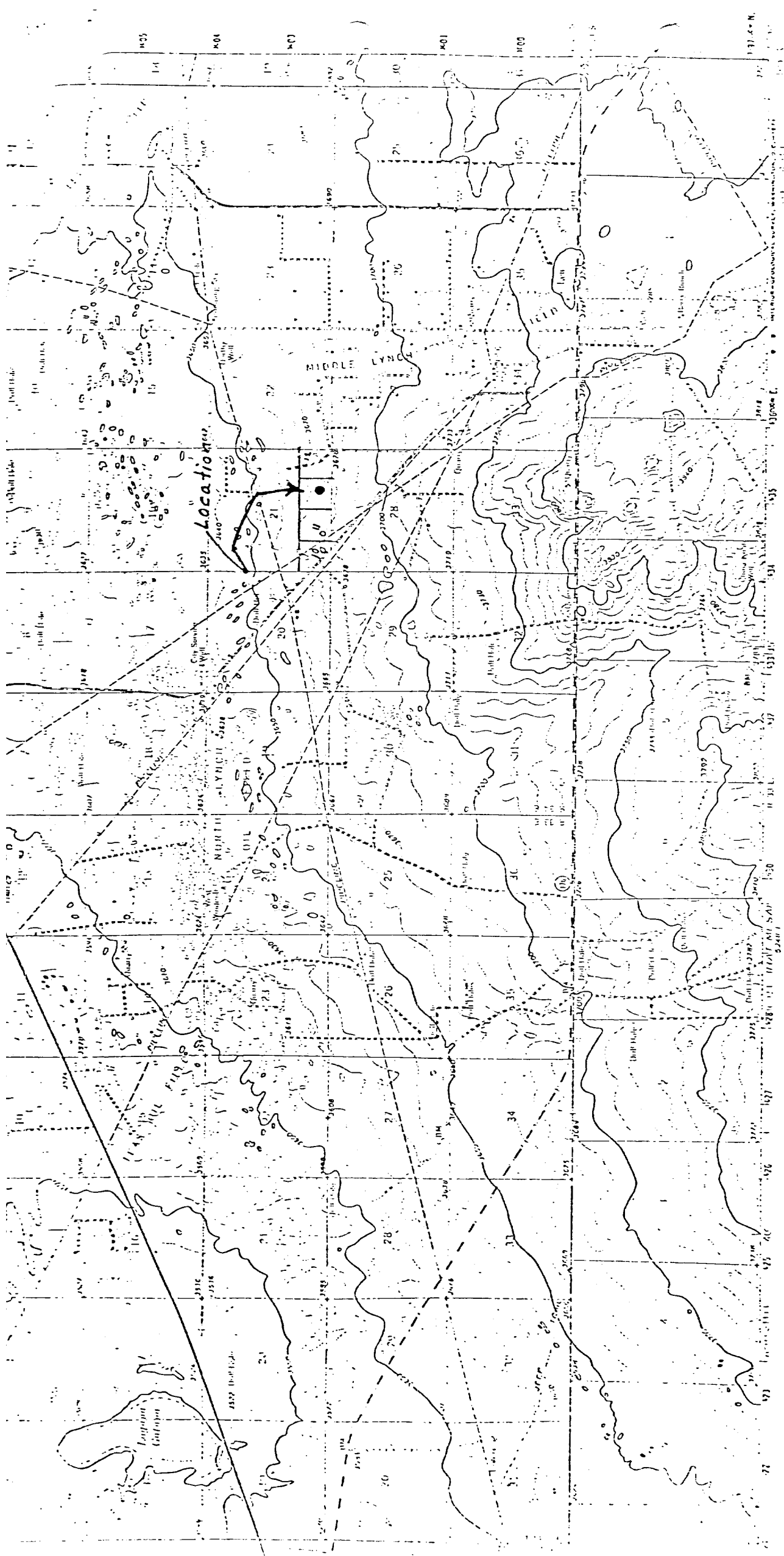
Walter W. Krug

Engineer and authorized agent

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OIL CONSERVATION COMMISSION
WASHINGTON, D. C.



SCALE 1:62,500

VERTICAL DISTANCE IN FEET
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Bollard
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Burk Roy
066126
U.S.

WALLEN PRODUCTION CO. - BASS #4

E/2, SW/4, SE/4, Sec. 21, T20S, R34E

LEA COUNTY, NEW MEXICO

16

